

Page 1 of 7

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/025,524

DATE: 07/24/2002

TIME: 09:06:41

Input Set : A:\EP.txt

Output Set: N:\CRF3\07242002\J025524.raw

SEQUENCE LISTING

			SEQUENCE LISTING
	3	` '	RAL INFORMATION:
	5	(i)	APPLICANT: Gallatin, W. Michael
	6		Kilgannon, Patrick D.
	8	(ii)	TITLE OF INVENTION: ICAM-4 Materials and Methods
	10	(iii)	NUMBER OF SEQUENCES: 42
	12	(iv)	CORRESPONDENCE ADDRESS:
	13		(A) ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
	14		(B) STREET: 233 South Wacker Drive, 6300 Sears Tower
	15		(C) CITY: Chicago
	16		(D) STATE: Illinois
	17		(E) COUNTRY: United States of America
	18		(F) ZIP: 60606-6402
	20	(V)	COMPUTER READABLE FORM:
	21		(A) MEDIUM TYPE: Floppy disk
	22		(B) COMPUTER: IBM PC compatible
	23		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
	24		(D) SOFTWARE: PatentIn Release #1.0, Version #1.25
	26	(vi)	CURRENT APPLICATION DATA:
C>	27		(A) APPLICATION NUMBER: US/10/025,524
C>	28		(B) FILING DATE: 18-Dec-2001
	29	,	(C) CLASSIFICATION:
	55	(vii)	PRIOR APPLICATION DATA:
	32		(A) APPLICATION NUMBER: US 07/827,689
	33		(B) FILING DATE: 27-JAN-1992
	36		(A) APPLICATION NUMBER: US 07/889,724
	37		(B) FILING DATE: 26-MAY-1992
	40		(A) APPLICATION NUMBER: US 07/894,061
	41		(B) FILING DATE: 05-JUN-1992
	44		(A) APPLICATION NUMBER: US 08/009,266
	45		(B) FILING DATE: 22-JAN-1993
	48		(A) APPLICATION NUMBER: US 08/102,852
	49		(B) FILING DATE: 05-AUG-1993
	52		(A) APPLICATION NUMBER: US 08/245,295
	53		(B) FILING DATE: 18-MAY-1994
	56		(A) APPLICATION NUMBER: US 08/485,604
	57		(B) FILING DATE: 07-JUN-1995
	59	(viii)	ATTORNEY/AGENT INFORMATION:
	60		(A) NAME: WILLIAMS, JR. JOSEPH A.
	61		(B) REGISTRATION NUMBER: 38,659
	62		(C) REFERENCE/DOCKET NUMBER: 27866/33321
	64	(ix)	TELECOMMUNICATION INFORMATION:
	65		(A) TELEPHONE: 312-474-6300

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66 67 69	(2)	TNEC	(0) TI	ELEFA	25-	3856	j									
71																	
72	• •																
73	73 (B) TYPE: nucleic acid																
74	74 (C) STRANDEDNESS: single																
75			(D) TO	POLC	GY:	line	ar									
77		(ii)	MOL	ECUI	E TY	PE:	CDNA										
80		(ix)	FEA	TURE	Ē:												
81			•	•	ME/K												
82			•	•	CATI												
84					E DE												60
																CGGCA	
													CTC				108
90	met 1	PIO	СТА	PIO	5e1	PIO	Сту	Leu	ALG	10	1111	Leu	Leu	СТУ	15	пр	
		GCC	CTG	GGC		GGG	Δጥሮ	СТА	GGC		ጥሮል	GCG	GTC	GCG		GAA	156
													Val				130
94			Leu	20	Lou	O ₁			25					30		014	
	CCT	TTC	TGG		GAC	CTT	CAG	CCC		GTG	GCG	CTC	GTG		CGC	GGG	204
													Val				
98			35		_			40	_				45		-	_	
100	GGC	TCG	CTG	TGG	CTC	AAC	TGC	AGC	ACT	AAC	TGT	CCG	AGG	CCG	GAG	CGC	252
101	Gly	Ser	Leu	Trp	Leu	Asn	Cys	Ser	Thr	Asn	Cys	Pro	Arg	Pro	Glu	Arg	
102		50					55					60					
																CTG	300
	_	GLy	Leu	GIU	l Thr			Arg	Arg	Asn	_		GIn	Arg	GLY	Leu	
106	65	mcc	CmC	CO	י מכא	70		СПС	CAC	אתוכי	75		COM	C 3 3	7.00	80	240
																CAG Gln	348
110	AIG	115	Leu	AIC	85		neu	Val	. кэр	90	-	GIU	PIO	GIU	95		
	CCG	GTC	TGC	TTC			TGC	GCG	CGC			CTC	CAA	GCG		GGG	396
																Gly	
114			-	100			-		105	-				110	_	-	
116	CTC	ATC	CGA	ACI	TTC	CAG	CGA	CCG	GAT	CGG	GTA	GAG	CTA	GTG	CCT	CTG	444
117	Leu	Ile	Arg	Thr	Phe	Gln	Arg	Pro	Asp	Arg	Val	. Glu	Leu	Val	Pro	Leu	
118			115					120					125				
																GTC	492
	Pro		_	Gln	Pro	Val	_		Asn	Phe	Thr			Cys	Arg	Val	
122		130					135				mma	140			~~~	222	540
																GGC	540
	145	_	Ата	. Сту	PIO	150		ser	Leu	TILL	155		reu	Leu	Arg	Gly 160	
			CAC	CTC	ייייים מ			λсπ	ጥጥር	СΨΔ			CCA	CCC	CGA	GCT	588
																Ala	500
130	~-1	U 111	. JIu		165	_	9		- 110	170	_	~ L U		0	175		
	CGG	GGT	GCG	ATG			GCC	ACG	GTC			CGC	AGA	GAG		CAC	636
																His	
	_	_										_	_		_		

Input Set : A:\EP.txt

134				180					185					190			
	AGG	GCC	AAT		TCA	TGC	CTC	GCG		CTT	GAC	CTG	CGG		CAC	GGC	684
								Ala									
138	_		195			-		200			-		205			_	
140	TTG	GGA	CTG	TTT	GCA	AAC	AGC	TCA	GCC	CCC	AGA	CAG	CTC	CGC	ACG	TTT	732
																Phe	
142		210					215				-	220		_			
144	GCC	ATG	CCT	CCA	CTT	TCC	CCG	AGC	CTT	ATT	GCC	CCA	CGA	TTC	TTA	GAA	780
145	Ala	Met	Pro	Pro	Leu	Ser	Pro	Ser	Leu	Ile	Ala	Pro	Arg	Phe	Leu	Glu	
146	225					230					235					240	
148	GTG	GGC	TCA	GAA	AGG	ĊCG	GTG	ACT	TGC	ACT	TTG	GAT	GGA	CTG	TTT	CCT	828
149	Val	Gly	Ser	Glu	Arg	Pro	Val	Thr	Cys	Thr	Leu	Asp	Gly	Leu	Phe	Pro	
150					245					250					255		
152	GCC	CCA	GAA	GCC	GGG	GTT	TAC	CTC	TCT	CTG	GGA	GAT	CAG	AGG	CTT	CAT	876
153	Ala	Pro	Glu	Ala	Gly	Val	Tyr	Leu	Ser	Leu	Gly	Asp	Gln	Arg	Leu	His	
154				260					265					270			
156	CCT	AAT	GTG	ACC	CTC	GAC	GGG	GAG	AGC	CTT	GTG	GCC	ACT	GCC	ACA	GCT	924
157	Pro	Asn	Val	Thr	Leu	Asp	Gly	Glu	Ser	Leu	Val	Ala	Thr	Ala	Thr	Ala	
158			275					280					285				
								GGC									972
161	Thr		Ser	Glu	Glu	Gln		Gly	Thr	Lys	Gln		Met	Cys	Ile	Val	
162		290					295					300					
								GAG									1020
		Leu	Gly	Gly	Glu		Arg	Glu	Thr	Gln		Asn	Leu	Thr	Val	_	
	305					310					315					320	
								ACT									1068
	Ser	Phe	Pro	Ala		Leu	Leu	Thr	Leu		GLu	Pro	GLu	Ala		GLu	
170					325			maa	maa	330		~~~			335		1116
								TGC									1116
174	СТА	ьуѕ	мес		THE	Val	ser	Cys	345	Ата	GLY	Ата	Arg	350	ьец	vaı	
	N C C	መመ ር	CAC	340	አ ጥጥ	CCA	ССТ	GCG		CCT	CCC	CAC	CCC		CAC	CTC	1164
								Ala									1104
178	1111	пец	355	Gry	116	FIO	лти	360	Val	110	Gry	GIII	365	AIU	GIU	пец	
	CAG	ттδ		СТС	ΔΩ	ΔAG	ΔΔΨ	GAC	GAC	AAG	CGG	GGC		ጥጥር	ጥርር	GAC	1212
								Asp									1212
182	0111	370	11511	,		2,5	375	шьр	пор	2,0	9	380	1 110	1110	010	no _P	
	GCT		CTC	GAT	GTG	GAC		GAA	ACT	CTG	AGA		AAC	CAG	AGC	тст	1260
								Glu									
	385					390	1				395	_1 -				400	
		CTT	CGT	GTT	CTG	TAC	GCA	CCT	CGG	CTG		GAC	TTG	GAC	TGT		1308
								Pro									
190			,		405	•			_	410	•	-		~	415		
192	AGG	AGC	TGG	ACG	TGG	CCA	GAG	GGT	CCA	GAG	CAG	ACC	CTC	CAC	TGC	GAG	1356
193	Arg	Ser	Trp	Thr	Trp	Pro	Glu	Gly	Pro	Glu	Gln	Thr	Leu	His	Cys	Glu	
194	-		=	420	=			=	425					430			
196	GCC	CGT	GGA	AAC	CCT	GAG	CCC	TCC	GTG	CAC	TGT	GCA	AGG	CCT	GAC	GGT	1404
197	Ala	Arg	Gly	Asn	Pro	Glu	Pro	Ser	٧al	His	Cys	Ala	Arg	Pro	Asp	Gly	
198			435					440					445				

Input Set : A:\EP.txt

200	GGG	GCG	GTG	CTA	GCG	CTG	GGC	CTG	TTG	GGT	CCA	GTG	ACC	CGT	GCC	CTC	1452
	Gly																
202		450					455					460		,			
204	GCG	GGC	ACT	TAC	CGA	TGT	ACA	GCA	ATC	AAT	GGG	CAA	GGC	CAG	GCG	GTC	1500
205	Ala	Gly	Thr	Tyr	Arg	Cys	Thr	Ala	Ile	Asn	Gly	Gln	Gly	Gln	Ala	Val	
	465	_		-	_	470					475		_			480	
208	AAG	GAT	GTG	ACC	CTG	ACT	GTG	GAA	TAT	GCC	CCA	GCG	CTG	GAC	AGT	GTA	1548
	Lys						,										
210	•	-			485				-	490				-	495		
	GGC	TGC	CCA	GAA	CGT	ATT	ACT	TGG	CTG	GAG	GGG	ACA	GAG	GCA	TCG	CTT	1596
213	Gly	Cys	Pro	Glu	Arg	Ile	Thr	Trp	Leu	Glu	Gly	Thr	Glu	Ala	Ser	Leu	
214	_	_		500	_				505		_			510			
216	AGC	TGT	GTG	GCA	CAC	GGG	GTC	CCA	CCA	CCT	AGC	GTG	AGC	TGT	GTG	CGC	1644
217	Ser	Cys	Val	Ala	His	Gly	Val	Pro	Pro	Pro	Ser	Val	Ser	Cys	Val	Arg	
218	•		515			•		520					525				
220	TCT	GGA	AAG	GAG	GAA	GTC	ATG	GAA	GGG	CCC	CTG	CGT	GTG	GCC	CGG	GAG	1692
221	Ser	Gly	Lys	Glu	Glu	Val	Met	Glu	Gly	${\tt Pro}$	Leu	Arg	Val	Ala	Arg	Glu	
222	•	530					535					540					
224	CAC	GCT	GGC	ACT	TAC	CGA	TGC	GAA	GCC	ATC	AAC	GCC	AGG	GGA	TCA	GCG	1740
225	His	Ala	Gly	Thr	Tyr	Arg	Cys	Glu	Ala	Ile	Asn	Ala	Arg	Gly	Ser	Ala	
226	545					550					555					560	
	GCC																1788
	Ala	Lys	Asn	Val		Val	Thr	Val	Glu		Gly	Pro	Ser	Phe		Glu	
230			•		565			•		570					575		
	TTG																1836
	Leu	Gly	Cys		Ser	Asn	Trp	Thr	-	Val	Glu	Gly	Ser	-	Lys	Leu	
234				580					585	~~~				590			1004
	TTT																1884
	Phe	ser	595	GIU	vaı	ASP	GTĀ	_	Pro	GIU	PLO	Arg		GIU	Cys	val	
238	GGC	шос		CCM	CCA	100	C A A	600	CITIA	CITIC	mmc	aaa	605	CMC	maa.	mac.	1022
	Gly																1932
242	GIY	610	GIU	сту	на	261	615	СТУ	Val	vaı	пеп	620	пеп	Val	Ser	Set	
	AAC		ССТ	ሞርር	λαλ	λλα		ΔТС	αСπ	ССТ	ССТ		СТС	ጥሮል	CCG	CCT	1980
	Asn																1700
246		UCI	G _L y	DCI	nr 9	630	DCI	nec	1111	110	635	71511	ЦСи	DCI	110	640	
	ATT	ТΔС	СТС	тсс	ΔΔС		ACC	AAC	CGG	СΑТ		ፐርር	ACA	GTC	ΔΔΔ		2028
	Ile																2020
250		-1-		010	645				5	650	- 1				655		
	GTC	GTC	GTG	AGC		GAA	TCA	CCG	CCA		ATG	GAT	GAA	TCC		TGC	2076
	Val																
254				660					665					670		-1-	
	CCG	AGT	CAC		ACA	TGG	CTG	GAA		GCC	GAG	GCT	ACT		CTG	GCC	2124
	Pro																
258			675			•		680	-				685				
	TGC	AGT		AGA	GGC	CGC	CCC	TCT	CCA	CGC	GTG	CGC		TCC	AGG	GAA	2172
	Cys																
262	,	690		-	_	_	695			-		700	_		_		
264	GGT	GCA	GCC	AGG	CTG	GAG	AGG	CTA	CAG	GTG	TCC	CGA	GAG	GAT	GCG	GGG	2220

Input Set : A:\EP.txt

265	Gly	Ala	Ala	Ara	Leu	Glu	Ara	Leu	Gln	Val	Ser	Ara	Glu	Asp	Ala	Glv	
	705			5		710	5				715	5				720	
268	ACC	TAC	CTG	TGT	GTG	GCT	ACC	AAC	GCG	CAT	GGC	ACG	GAT	TCA	CGG	ACC	2268
269	Thr	Tyr	Leu	Cys	Val	Ala	Thr	Asn	Ala	His	Gly	Thr	Asp	Ser	Arg	Thr	
270					725					730					735		
272	GTC	ACT	GTG	GGT	GTG	GAA	TAC	CGG	CCT	GTG	GTG	GCT	GAG	CTG	GCA	GCC	2316
273	Val	Thr	Val	Gly	Val	Glu	Tyr	Arg	Pro	Val	Val	Ala	Glu	Leu	Ala	Ala	
274				740					745					750			
	TCG																2364
	Ser	Pro		Ser	Val	Arg	Pro	_	Gly	Asn	Phe	Thr		Thr	Cys	Arg	
278			755					760					765				0.4.5.0
	GCA																2412
	Ala		Ala	Trp	Pro	Pro		GIn	тте	Ser	Trp	_	Ата	Pro	Pro	GLY	
282	com	770	220	CITIC	CCIII	CMC	775	700	220	220	200	780	CITIC.	7.00	CITIC	CCC	2460
	GCT																2460
	Ala 785	Leu	ASII	ьeu	GIY	790	ser	ser	ASII	ASII	795	TIIT	пеп	ser	val	800	
	GGT	CCC	ልጥር	ccc	ACC		ССТ	GGC	CAC	ייי אייי		TCC	GCA	GCC	A C C		2508
	Gly																2300
290	Ory	11±u	1100	OT,	805		017	017	Olu	810	O_u	CID	21114	1114	815	11011	
	GCG	CAT	GGG	CGC		GCA	CGG	CGC	ATC		GTG	CGC	GTG	GCC		CCA	2556
	Ala																
294				820			,	,	825			_		830	- 4		
296	TGG	CTG	TGG	GTC	GCT	GTG	GGC	GGT	GCG	GCA	GGG	GGC	GCG	GCG	CTG	CTG	2604
297	Trp	Leu	Trp	Val	Ala	Val	Gly	Gly	Ala	Ala	Gly	Gly	Ala	Ala	Leu	Leu	
298			835					840					845				
300	GCC	GCA	GGG	GCC	GGC	CTG	GCC	TTC	TAC	GTG	CAG	TCC	ACC	GCT	TGC	AAG	2652
301	Ala		Gly	Ala	Gly	Leu	Ala	Phe	\mathtt{Tyr}	Val	Gln	Ser	Thr	Ala	Cys	Lys	
302		850					855					860					
	AAG																2700
	Lys	Gly	Glu	Tyr	Asn		GIn	GLu	Ala	GLu		Ser	GLY	Glu	Ala		
	865	a=a		~~~	200	870			000		875	~	000	~~~		880	0740
	TGT																2748
310	Cys	Leu	ASII	GTĀ	885	СТА	СТА	THE	PIO	890	Ата	GIU	СТА	GIY	895	GIU	
	ACC	CCC	GGC	αст		CAG	ጥ ር አ	ССТ	GCA		GGC	CAC	CTT	ምም ር		ልጥሮ	2796
	Thr																2750
314		110	OT1	900	2114	Olu		110	905	nop.		014	· u I	910	2114	110	
	CAG	CTG	ACA		TCC	TGAC	CCTC	TA 1		CTC	cc cc	CAGGO	GCCI		AAAGO	CACA	2851
	Gln		_														
318			915							•							
320	GGGG	TGG	ACG 1	'ATG	CATTC	T TO	CACTO	CTCT	TTI	TTAT	CAAC	TCCF	AGGGG	GCG 7	CGTC	CCCCGT	2911
																AAAAA	2971
324	AAA?	AAAA	AAA A	AAAA!	AAA												2988
	(2)																
328		(i)					TER										
329							L7 an		acid	is							
330			•	•			no ac										
331			(1) TC	OPOLO	GY:	line	ear									

VERIFICATION SUMMARYPATENT APPLICATION: **US/10/025,524**DATE: 07/24/2002
TIME: 09:06:42

Input Set : A:\EP.txt

Output Set: N:\CRF3\07242002\J025524.raw

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L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:2058 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:27
L:2258 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29
L:2274 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30
L:2302 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32
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